

Datasheet: TZA006

Description:	HUMAN ANTI CEMIPLIMAB
Specificity:	CEMIPLIMAB
Other names:	Libtayo
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD41947ad
Isotype:	HuCAL Fab monovalent
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	•			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library. Expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation	Metal chelate affinity chromatography
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% ProClin 950
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml

Immunogen	Cemiplimab
Specificity	Human Anti-Cemiplimab Antibody, clone AbD41947ad is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the fully human monoclonal antibody cemiplimab. It does not recognize free human programmed death receptor-1 (PD-1) nor cemiplimab in complex with PD-1. The antibody can be used to measure free cemiplimab in patient samples.
	The antibody is tagged with a SpyTag2 at the C-terminus of the Fab antibody heavy chain, enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour.
	A pair of anti-cemiplimab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody can be used as a capture reagent, paired with Anti-Cemiplimab Antibody, clone AbD41947ia (<u>HCA368</u>) in full IgG1 format as the detection reagent.
	View a summary of SpyCatcher products
	Cemiplimab (Libtayo) is a fully human IgG4/kappa antibody. It has been approved for the treatment of patients with metastatic cutaneous squamous cell carcinoma (CSCC) and for the first-line treatment of patients with advanced non-small cell lung cancer (NSCLC) whose tumours have high PD-L1 expression. Cemiplimab acts as a checkpoint inhibitor by binding to the PD-1 receptor and blocking its interaction with PD-L1 and PD-L2 ligands.
	View a summary of all anti-cemiplimab antibodies
Affinity	The monovalent intrinsic affinity of AbD41947ad was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized cemiplimab.
ELISA	Clone AbD41947ad can be used as the capture antibody for cemiplimab in a bridging ELISA together with <u>HCA368</u> as the detection reagent.
	Protocol: PK bridging ELISA
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Acknowledgements	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

ProClin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of

	Dow. His-tag is a registered trademark of EMD Biosciences. Libtayo is a trademark of Regeneron Pharmaceuticals, Inc.
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: 20479: https://www.bio-rad-antibodies.com/uploads/MSDS/20479.pdf
Licensed Use	For in vitro research purposes and for commercial applications for the provision of in vitro testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.
Regulatory	For research purposes only
Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <u>SpyTag and SpyCatcher Products</u> , and further information about HuCAL recombinant antibody technology can be found in the <u>HuCAL Antibodies Technical Manual</u>

Related Products

Recommended Useful Reagents

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)

HISPEC ASSAY DILUENT (BUF049A)

SpyTag3 PEPTIDE (BLP086)

HUMAN ANTI CEMIPLIMAB (HCA367)

HUMAN ANTI CEMIPLIMAB (HCA368)

HUMAN ANTI CEMIPLIMAB (HCA369)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M417126:230302'

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